

X-Tractor 1GC

Portable Welding Fume Extractor

Lincoln's X-Tractor 1GC is a portable, high vacuum, low volume extraction system specifically designed for the removal and filtration of welding fumes. The 1GC is the perfect choice for small shops or companies with few welding stations, yet lightweight and small enough to be easily carried to the welding area.

Because of its high portability and low cost, the X-Tractor 1GC is perfect for light duty welding use such as light fabrication, maintenance and construction applications. With a simple motor brush replacement, the X-Tractor 1GC could be used in "light duty" semiautomatic applications as well.

What sets the X-Tractor 1GC apart from the competition is its unique internal and self-contained filter cleaning system. By using compressed air, the filter is blown out by a high-velocity rotary air jet device that extends the life of the filter. Simple. Easy. Effective

Overall filter performance will be affected by process and application variables including: base metal(s), consumable(s), and coatings (oil) if applicable.

Processes

Stick, TIG, MIG, Flux-Cored

Description

Extraction capacity: Low Speed: 55 CFM
High Speed: 115 CFM



Shown with optional K639-5 Suction Nozzle

Extraction Capacity

LO: 55 CFM
HI: 110 CFM

Input

1 PHASE

50/60 Hz

Advantage Lincoln

- High efficiency, cleanable polyester filter.
- Uses a single fume gun or suction nozzle attachment.
- Filter is easily cleaned while inside the machine using a unique compressed air rotary jet cleaning system.
- Automatic start/stop current sensor extends motor life and provides extraction only when needed.
- For light to medium duty applications.
- Two powerful motors.
- Low noise operation: 74 dBA.

Base Unit Includes

- Adapter for 45 mm (1-3/4 in.) hose (S20591-8).
- 8 ft. (2.4 m) flexible hose. 45 mm (1-3/4") diameter.
- 2 spare sets of carbon brushes for motors.
- Filter cartridge.
- 12' (3.6 m) power cord.



TECHNICAL SPECIFICATIONS

Product Name	Product Number	Input Requirements Volts / Phase / Hertz	Input Current	Dimensions H x W x D in (mm)	Net Weight lbs (kg)
X-Tractor 1GC	K652-1	120V/1/50/60	15	340 x 680 x 400 (13.4 x 26.8 x 15.8)	17 (37)
	K652-2	220V/1/50/60	9		

A CLOSER LOOK

Weight and Design

The X-Tractor 1GC is lightweight and portable at only 37 lbs. (17 kg) and can easily be carried anywhere. This machine is perfect for light duty, intermittent use such as maintenance and construction applications.

High vacuum welding fume extraction systems utilize higher pressure of 70-90" WG and low volume of 50-100 CFM with an air speed of 4000-5000 ft/min. The air handling configuration of high vacuum equipment allows the use of small diameter rigid duct and small diameter flex hose to easily reach extraction points. It is perfect for applications such as short welds when using fume suction nozzles or larger fixture welding using integrated fume extraction guns. This process is designed for close proximity source extraction from 2-4" to the welding source.

Since the hoses and suction nozzles are smaller than those of low vacuum systems, it is much easier to carry the extraction nozzle and/or flex hose into confined spaces (45 ft. maximum distance). The mobility of the hoses allows the main filter unit to be kept at a central location. Due to the low air volume (CFM) extracted make-up air and negative room air pressures are kept to a minimum when exhausting outside the facility.

Filtration Process

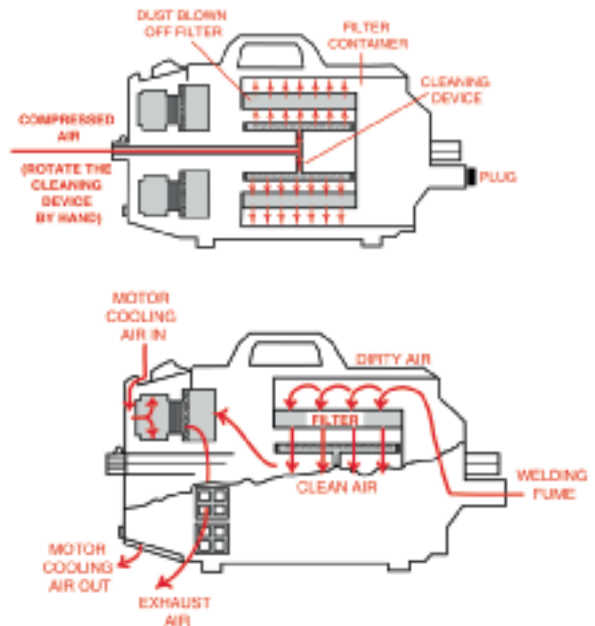
The X-Tractor 1GC has a unique internal manual cleaning system. Using a customer supplied compressed air source and manual rotation, the internal rotary air jet device supplies a burst of air from inside the filter cartridges. This in turn causes the particulate that has collected on the outside of the filter cartridge to drop into the bottom of the unit. The cover where the flex hose inlet is located is then removed and the particulate can be disposed of by following federal, state, and local environmental regulations.

Cable Sensor

At the bottom of the X-Tractor 1GC unit is an automatic start/stop sensor. The unit automatically switches on as the welder begins to weld. And automatically switches off approximately 15 seconds after the welder stops welding. The result is less energy consumption and non-continuous noise. For the automatic start/stop function to work, the welders work cable or power cable must be laid in the sensor hook.



Cable Sensor



GENERAL OPTIONS

EN 20 Extraction Nozzle

The EN 20 nozzle is designed for a wide array of welding applications. With its funnel extraction opening and magnetic mounting stand, it gives the welder a greater amount of versatility.

Order K2389-5



EN 40 Extraction Nozzle

The EN 40 nozzle is designed for stick electrode applications. With its L-shaped tube and an elongated slotted opening, the EN 40 nozzle is designed to coincide with the time it takes the welder to use one stick electrode. This design alleviates the welder from having to continuously reposition the nozzle. Magnetic mounting stand included.

Order K2389-6



SHFA Flat Suction Nozzle

150 mm (6 in.) Aluminum suction nozzle with 20 in. (500 mm) flexible steel hose and magnetic mounting. Includes S20591-7 adapter for 1-3/4 in. (45 mm) hose. Best capture distance: < 4 in. (100 mm).

Order K639-5



Aluminum Suction Nozzle with Magnetic Mounting. Includes S20591-7 adapter for 1 3/4 in. (45 mm) hose. Best capture distance:~ 1-1/2 in. (38 mm).

SHM-300 Nozzle-300 mm (12 in.) Nozzle

Order K639-1

SHM-400 Nozzle-400 mm (16 in.) Nozzle

Order K639-2

SHM-500 Nozzle-500 mm (20 in.) Nozzle

Order K639-3



SHMS-400 Nozzle

Low noise Nozzle-400 mm (16 in.) Aluminum suction nozzle with magnetic mounting. Includes S20591-7 adapter for 1-3/4 in. (45 mm) hose. Best capture distance:~ 1-1/2 in. (38 mm).

Order K639-4



UNM Suction Nozzle for Heavy Smoke

200 mm (8 in.) Aluminum suction nozzle with magnetic mounting. Includes S20591-7 adapter for 1-3/4 in. (45 mm) hose. Best capture distance: < 4 in. (100 mm)

Order K639-6



GENERAL OPTIONS, CONT.

SHMT Round Suction Nozzle

90 mm (3.6 in.) Suction nozzle with 13 in. (330 mm) flexible steel hose and magnetic mounting. Includes S20591-8 adapter for 1-3/4 in. (45 mm) hose. Best capture distance: < 4 in. (125 mm).

Order K639-14



Gun Mounted Nozzle Kit (OT-25)

Nickel plated brass nozzle slips over the gun's gas nozzle and secures with screw. Includes a total of 16 ft. (5 m) of hose and all necessary adapters including SS-3245 for connection to 1-3/4 in. (45 mm) hose.

Order K639-20



Nozzle Kits

The NKT and NKC nozzle kits provide extraction capacity to standard welding torches. The NKT kit is for mounting the extraction hose on top of gun. The NKC kit is for circular extraction. Note: guns not included.

Order K2389-3 for NKT

Order K2389-4 for NKC

NKT
K2389-3

NKC
K2389-4



Extraction Hoses

For longer hose applications, flexible high temperature hoses with spring steel reinforcement are optional. The extraction hoses can be used to connect to or replace the already included hose with X-Tractor 1GC base unit. To ensure effective performance level, it is recommended that a maximum hose length of 45 ft. (15 m) be used.

Order K2389-8

for 16 ft. x 1-3/4 in. hose

Order K2389-9

for 8 ft. x 1-3/4 in. hose



Hose-to-Hose Adapter

To connect hoses together, a 2 in. (50 mm) hose-to-hose adapter screws over hose ends, providing a tight connection and seal.

Order K2389-10



Fume Guns

To extract welding fumes, Lincoln Electric's X-Tractor 250FG, 340FG, and 500FG fume guns, can be connected to the X-Tractor 1GC and its extraction hose.

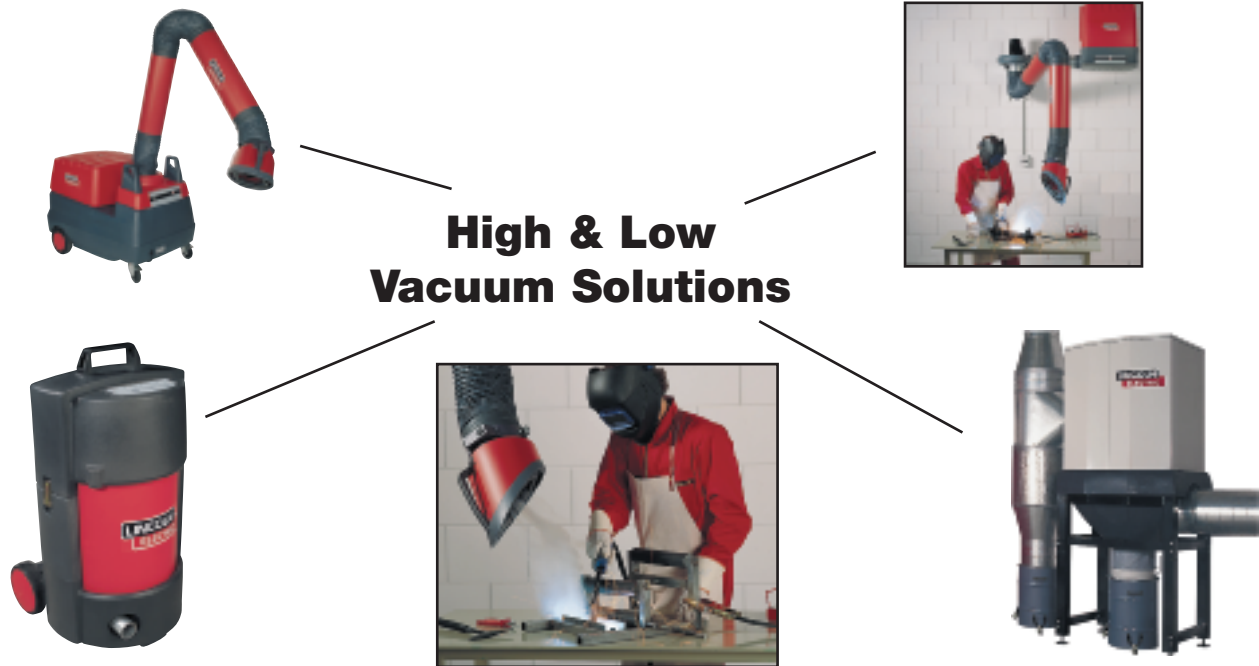
For X-Tractor 250FG, 340FG, 500FG contact Lincoln Electric Sales Office



X-TRACTOR 1GC ORDER FORM

PRODUCT DESCRIPTION	ORDER NUMBER	QUANTITY	PRICE
X-TRACTOR 1GC 120/1/50/60	K652-1		
X-TRACTOR 1GC 220/1/50/60	K652-2		
GENERAL OPTIONS			
EN 20 Extraction Nozzle	K2389-5		
EN 40 Extraction Nozzle	K2389-6		
SHFA Flat Suction Nozzle	K639-5		
SHM-300 Nozzle	K639-1		
SHM-400 Nozzle	K639-2		
SHM-500 Nozzle	K639-3		
SHMS-400 Low Noise Nozzle	K639-4		
UNM Suction Nozzle for Heavy Smoke	K639-6		
SHMT Round Suction Nozzle	K639-14		
Gun Mounted Nozzle Kit (OT-25)	K639-20		
NKT Nozzle Kit	K2389-3		
NKC Nozzle Kit	K2389-4		
16 ft. x 1-3/4 in. Extraction Hose	K2389-8		
8 ft. x 1-3/4 in. Extraction Hose	K2389-9		
Hose-to-Hose Adapter	K2389-10		
X-Tractor Fume Guns (250FG, 340FG, 500FG)	Contact Lincoln Electric Sales Office		
	TOTAL:		

Environmental Systems Family



CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for advice or information about their use of our products. We respond to our customers based on the best information in our possession at that time. Lincoln Electric is not in a position to warrant or guarantee such advice, and assumes no liability, with respect to such information or advice. We expressly disclaim any warranty of any kind, including any warranty of fitness for any customer's particular purpose, with respect to such information or advice. As a matter of practical consideration, we also cannot assume any responsibility for updating or correcting any such information or advice once it has been given, nor does the provision of information or advice create, expand or alter any warranty with respect to the sale of our products.

Lincoln Electric is a responsible manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

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